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The headings (**bold type**) are arranged in alphabetical order, sub-headings being differentiated by the use of lower case type for the initial letter. Minor groupings of entries have been made by indentation, under an introductory heading, whose first phrase is intended to be repeated before each of the following indented entries. Copious cross-references are provided to direct attention to relevant headings.

At the end of the Index (for convenience in reference) will be found a collected list of all the headings employed, grouped into sections by subject on the same basis as the monthly issues of *Science Abstracts*. The reader is recommended to inspect this list before commencing a search, so that no heading relevant to his subject may be overlooked.

Substances. The names of a large number of elements, compounds and substances are included as headings; abstracts containing significant physical information are entered under these (with the exceptions noted below) as well as under the appropriate subject headings. Since the index is intended for the use of physicists, no special regard has been paid to exact chemical designation, and as far as possible the familiar names have been used for compounds. Only the simpler of organic compounds have been listed by name. For the present, no entries under substance names have been made for the following: Alloys; most minerals; Crystal structure, molecular; Luminescence, unless of pure substances; Spectra, including Luminescence spectra and Raman spectra; Molecules, atoms and nuclei. The names of all substances and nuclei in these categories are, however, quoted in the entries under the respective subject headings. Substance headings have not been included in the Collected List of Headings at the end of the Index.

Suggestions for the extension and improvement of the Index will be welcomed.

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- Constants, atomic
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- Field theory
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  - interactions
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    - particle/e.m. field
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  - quantization
- Radiation, theory

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- Indeterminacy
- Random processes
- Fluctuations
- Brownian movement
- Thermodynamics

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- Kinematics
- Stress analysis
- Bending
- Bending moments†
- Buckling†
- Torsion
- Gravitation
- Pendulums
- Pressure

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  - flexible bodies
  - rigid bodies
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- Vibrating bodies
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- Gyroscopes
- Ballistics
- Rockets
- Impact
- Friction

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- Interferometry
- Thickness measurement
- Optical lever
- Curvature measurement
- Particle size
- Area measurement†
- Surface measurement
- Volume measurement

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Weighing
Mass standards
Balances
Density
Density measurement
Vapour pressure measurement
Angle measurement
Alignment
Angular velocity measurement
Stroboscopes†
Velocity measurement
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Time interval measurement

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Statistical mechanics
Association
Equations of state
Joule–Thomson effect†

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  measurement
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Seismographs
Vibrating bodies
Oscillations
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- Plasticity
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- Elastic fatigue
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- Hysteresis
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- Electron diffraction crystallography
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- Electron microscope examination
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- Mineralogy†

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Seismology
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Hygrometers
Anemometers
Barometers
Weather forecasting†

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  radioactivity
  structure
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Ionosphere measuring apparatus
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Photographic light sources
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Optical materials

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Alloys

JOURNALS ABSTRACTED COMPLETELY

The following list gives the names of those journals whose contents, at the present time, are almost entirely original contributions in Physics or Electrical Engineering, and which are therefore abstracted completely in one or other section of "Science Abstracts" (transient and non-scientific items excepted). Should the nature of the contents of any of these journals change in the future, the list will require amending, but complete abstracting will be maintained until the publication of a new list. The Editor will be grateful to have any omissions pointed out to him.

Acta Physica Austriaca
Acta Physica Hungarica
Acta Physica Polonica
Acustica
Advances in Physics
Akustische Beihefte
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Archiv der elektrischen Übertragung
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Indian Journal of Physics
Journal of the Acoustical Society of America
Journal of Applied Physics
Journal of Chemical Physics
Journal of the Optical Society of America
Journal de Physique et le Radium
Journal of the Physical Society of Japan
Journal of Scientific Instruments
Nuovo Cimento
Optik
Philosophical Magazine
Physica
Physical Review
Proceedings of the Institute of Radio Engineers
Proceedings of the Institution of Electrical Engineers
Proceedings of the Physical Society
Progress of Theoretical Physics
Reports of the Physical Society on Progress in Physics
Review of Scientific Instruments
Reviews of Modern Physics
Revue d'Optique Théorique et Instrumentale
Transactions of the American Institute of Electrical Engineers
Wireless Engineer
Zeitschrift für angewandte Physik
Zeitschrift für Naturforschung (a)
Zeitschrift für Physik
Zhurnal Eksperimentalnoĭ i Teoretichskoĭ Fiziki

Original Articles

It is regretted that the articles from which abstracts are made cannot be supplied on loan, nor can copies or microfilms of them be supplied. Application should be made to appropriate lending libraries, or to the publishers of the journals concerned; publishers' addresses, wherever known, are given in the List of Journals. Assistance will be gladly given in cases of particular difficulty.

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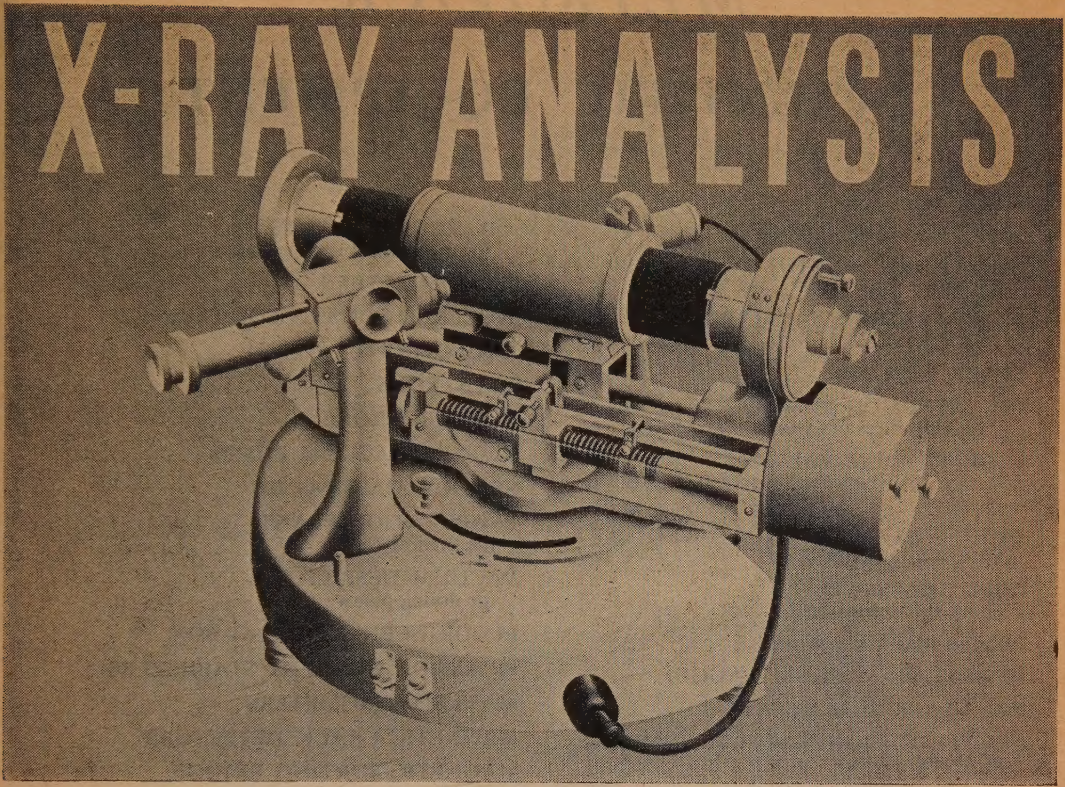

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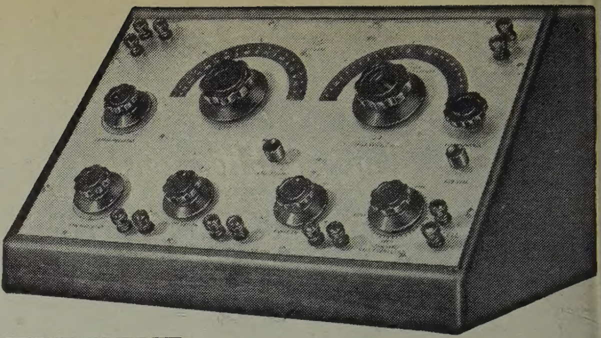

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